

FIELD INVESTIGATION TEAM SITE INSPECTION PLAN

R.G. KEARNS MGR. ENV. AFFAMS AND SAFETY 918/588-3248 P.C. BOX 3448 TULSA, OK, 74101

A. GENERAL INFORMATION

ITE: WILLIAMS PIPE LINE COMPANY	TDD NO .: F05-8612-83
OCATION: 10601 FRANKLIN AVE.	U.S. EPA NO .: 12000673053
FRANKIN RAME, IL. 60131	SSID NO.:
COOK COUNTY	WSTS ND.: FILO 503
LAN PREPARED BY: T-WOLFF	DATE:
	DATE:
PPROVED BY:	See LAND SEE SEE
BJECTIVE (including description of work to be performed ON SITE INSPECTION AND INTERVIEW WI	TH SITE CONTACTS /
REPRESENTATIVES.	
5. : : : : : : : : : : : : : : : : : : :	
DESIRED REPORT FORM: SI REPORT (2070-13)	HRS REPORT
DTHER (EXPLAIN)	
PROPOSED DATE OF INVESTIGATION:	
BACKGROUND REVIEW: Complete: V Preli	minary:
HRS PRELIMINARY SCORE OF ROUTES: GW 10.88 SW 1	1.96 AIR 0
DIRECT CONTACT 62.50	FIRE AND EXPLOSION
TOTAL PRELIMINARY HRS SCORE VALUE (NO FIELD WORK) 6.	39
PROJECTED HRS SCORE: GW 10.88 SW _ (WITH FIELD WORK) DIRECT CONTACT 67.50	1,96 AIR U
TOTAL PROJECTED HRS SCORE 6.39	
TE NO SAMPLING. EXPLAIN ON PAGE 3. WITH AN CHASTONIC DE	isase to Grevnowater + Score 23.62
INSPECTION PRIORITY (BASED ON PROJECTED HRS SCORE):	LOW: V MEDIUM: HIGH:
B. SITE/WASTE CHARACTE	RISTICS
WASTE TYPE(S): Liquid Solid	Sludge Gas
CHARACTERISTIC(S): Corrosive Ignitable	Radioactive Volatile
Toxic Reactive Unknown Other	
TUXIC V	V EE-1 1/86

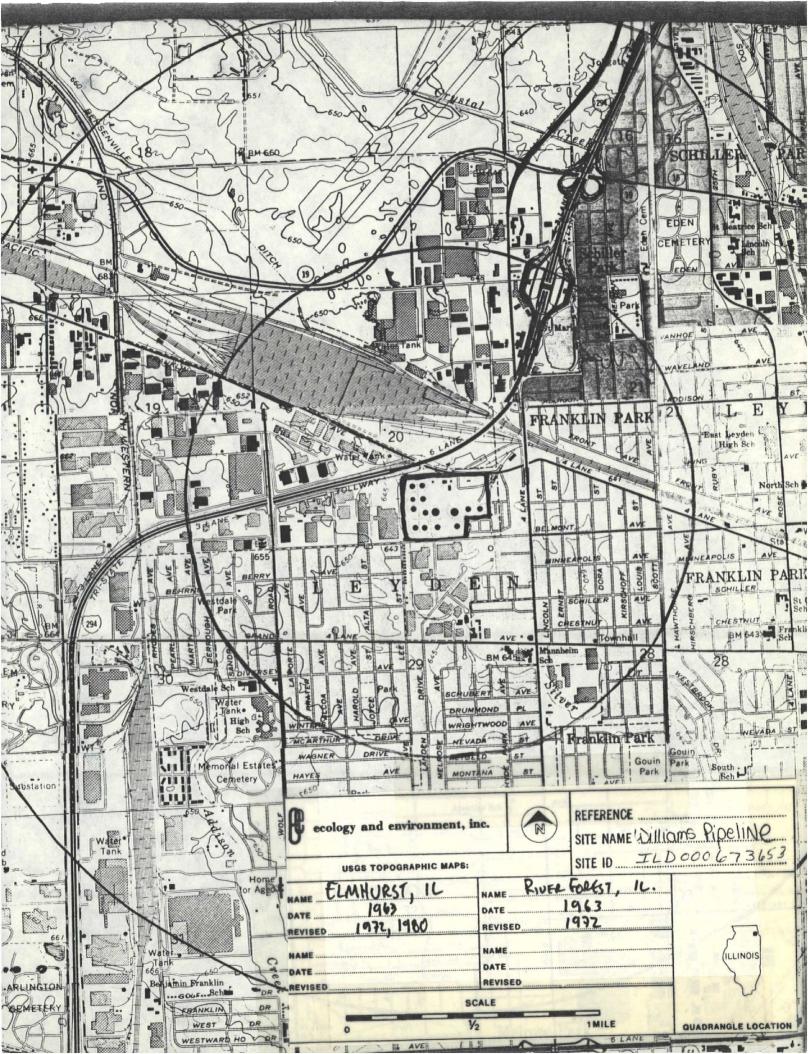
	. '.
	ILITY DESCRIPTION: WILLIAMS PIPE LINE CO. IS A COMMON CARRIER FOR
	INTO PETROLOUM PRODUCTS. PETROLEUM IS RECEIVED VIA PIPELINE AND
	TANKS. FROM 1935-1974, LEADED TANK BUTTUMS WERE CHESNED FROM TAMES AND
	Principal Disposal Method (type and location): SHALLOW TRENCHES WERE DU
-	SWOLF WAS BURIED WITH THE BALKFILLS EXCAUATED SOIL.
1	Unusual Festures (dike integrity, power lines, terrain, etc.): Thenches want
ŕ	NITHIN THE TANK DIKE WHICH WAS OPENED FOR DISCHARGE INTO
١	ADJACENT SILVER CRÉEK (NPDES).
:	Status: (active, inactive, unknown) FACILITY IS STILL ACTIVE 140WEVE
	BURIAL OF PÉTROLEUM SLUGGE WAS CEASED IN 1979.
•	
1	History: (worker or non-worker injury; complaints from public; previous agency action):
,	1974 - WATER AND GASOLINE WILL DAYINGD OF A STORAGE TANK
	AND FRANKLIM PARK POLICE RESAMOND TO CITIZENS' COMPLMINTS
	1980 - CITED BY IEPA FOR FAILURE TO RESUBBIT PERMIT FOR
	CONVERSION OF TWO FUEL VIL TANKS TO GASOLINE STORAGE TA
•	1985 - OPERATED AN UN AUTHOLITED NOOES BUCHARGE, MSD ASK
	FOR DISCHARGE TO BE DISCONNECTED PENDING FURTHER ACTION.
	C. HAZARD EVALUATION
	e Hazard Evaluation of Chemicals sheets for specific or representative chemicals
pre	sent.): LEADED TANK BOTTOMS
	LEAUED TANK 00 / 10M3
	Pb - TOXICITY 3, PERSISTENCE 3
_	To FIGURE 3
	HIGH CHAIN HYDROCARANS
	OH CHARLES TO A CONTRACT OF THE CONTRACT OF TH
	,

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	MODIFICATIONS: Level D with possible upgrade to level C if surveillance equipment readings are 1-5 ppm above Dockground. Readings & 5 ppm indicate abondoning the
<i>*</i>	sote and intracting RSC.
	SITE SAFETY PLAN ON FILE AT E & E: YES ND
	D. FIELD WORK REQUIRED
	PERIMETER ESTABLISHMENT: MAP/SKETCH ATTACHED? YES NO
w	Perimeter Identified? YESNO
	Zone(s) of Contamination Identified? YESND
	Geophysical Work: YES NO
	Type: Magnetometry Seismic Refraction GPR Resistivity Other
	Comments:
	Drilling: YES NO
	Well Location Identified: YES NO
	Drill Plan/Well Installation Plan Attached: YES NO
	Sampling Required: YES NO
	Type: GW SW Air Soil Weste Other
	Sampling Locations Identified: YES NO
	SUMMARY OF SAMPLING PROCEDURES: (Special Equipment, Facilities, or Procedures)
	AT PRESENT, NO SAMPLING IS ANTICIPATED.
	(SEE COMMENTS)
•	

E. ANALYTICAL SERVICES REQUIRED

RAS	SAS	CRL
	F. Q	APP
REQUIRED: YES	NO	
IF ND, EXPLAIN: _	NO SAMPLES ALE	70 BK COUSTIO
	317411 63 7426	10 Je Citactas
	G. SI WORK TEAM S	SIZE/LINITATION
TEAM MEMBER	DISCIPLINE	RESPONSIBILITY
D. Curnock	lagronumist/Biologist	TEAM LEAGUE / SIZE SAFETY OFFICE
T. Wolff	Ecologist	Team Member
WORK LIMITATIONS	(Time of day, etc.): World	L TO BE PERFORMED DURING
		ANT MONITHEING SHALL BE
CONDUCTED F	on HEAT & COLD STRES	2.
COMMENTS:	SEE ATTACKS CON	NAMENTS.





ecology and environment, inc.

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MEMORANDUM

DATE:

February 4, 1987

T0:

File

FROM:

Ruth Ann Jacquette Kan

SUBJECT:

Illinois/F05-8612-083/IL0503

Franklin Park/Williams Pipe Line Company

ILD000673053

According to file information, the Williams Pipe Line Company acts as a common carrier for refined petroleum products. Materials are shipped via pipeline to the facility's tank distributing manifold where they are pumped to one of approximately 14 above ground storage tanks. The product is later transferred to tanker trucks for distribution. Any spills resulting from loading drain into a recovery system and oil/water separator. The separator then discharges to Silver Creek. This outfall is permitted by N.P.D.E.S. The Williams Pipe Line Company does not own the refined products, but acts as a transfer and storage agent for other companies.

On August 18, 1980, the Williams Pipe Line Company submitted a RCRA Part A permit to operate as a generator. According to the U.S. EPA CERCLA Notification of Hazardous Waste 103(c) dated June 5, 1981, 2600 gallons of leaded tank bottoms (KO52) were disposed of onsite. Tanks are cleaned on a ten year frequency. A hole was excavated near the tank and the sludge spread out and covered with soil. Each time a tank was cleaned the sludge was buried in a different area. Leaded tank bottoms were used to complete the preliminary HRS score based on potential releases.

The potential score for groundwater and surface water routes is (S_M) 6.39. An observed release to groundwater (potential surface water) yields an HRS score of (S_M) 23.62. An observed release to surface water (potential groundwater) yields an HRS score of (S_M) 6.74, and an observed release to both routes yields a score of (S_M) 23.72.

In order to get an observed release to groundwater, which would significantly raise the overall HRS score (S_M 23.62), monitoring wells would have to be installed. The site is approximately 48 acres and numerous wells would be needed in order to attribute contaminants to the site. Also, the exact locations of the disposal trenches are unknown. Resource costs would be high to achieve an observed release to groundwater.

The Village of Bensenville is the only community within the 3-mile radius that obtains drinking water from groundwater wells, the remaining population is supplied by Lake Michigan water via Chicago. The Village of Bensenville population 16,700, is serviced by 4 wells which draw from approximately 1400 feet to 1900 feet. The Maquoketa Formation overlies the aquifer of concern and acts as a confining layer. One of the wells is located 2.5 miles west of the site and the other 3 wells are located outside of the 3-mile radius. All of the water is blended within the distribution system in such a manner that any one well could be shut off and the remaining wells would adequately service the entire population.

PRE-HRS

(12 0503) USEPA 10: 12000673053

Facility name WILLIAMS PIPE LINE C	ompan/					
LOCATION: 10601 FRANKLIN AVE., FRANKLIN PARK, IL. 6013), COOKCO.						
FACILITY DESCRIPTION THE WILLIAMS PI	PELINE COMPANY IS A					
Common Carrier FUR FEFINES PETROLES	M PRODUCTS LOCATED IN					
FRANKLIN PARK, IL. AND COOK COUNTY. AT	THE FACILITY, MATERIALS					
ARE RECEIVED VIA PIPEUNE AND PUMPED	INTO TANKS FOR LATER					
TRANSFER TO TANKER TRUCKS. From	742 YEARS 1935 TO 1979,					
THE 15 PETROLEUM STORAGE TANKS WERE C	LEANGO OF THEIR 55-165					
GALLONS OF SLUDGE ON A FREQUENCY	1 OF TEN YEARS, THE SWOLE					
WAS REMOVED AND BURIED IN A SHAW	an excavates treven and					
BACKFILED WITH THE EXCAVATED SOIL.	DIFFERNT TIMENCHES WELL					
USED FOR EACH CLEANING AND WEDE	LOCATED WITHIN THE TANK					
DIKE WHICH MAY BE OPENED FOR NPDE	S STORM WATER DISCHARGE.					
WILLIAMS PIPELINE COMPANY IS A	PERMITTED RCRA GENERATOR,					
AND IT HAS A HISTORY OF PETALEUM P	CONCT SPILLS.					
POTENTIAL SW + GW Scores SM = 6.39 (Spw = 10.68 Spw = 1.46 Sp = 0)	COBS. RELEASE SULFEU					
SFE =	i					
SDC = (2.50	See:					
Potential SW OBS. RELEASE GW	Soc= 62.50 Potential GW OBS RELEASE SW					
Sm=23.62 (Sgm=40.82 Sgm=1.96 Sg.=0)	Su=6.74 (50=10.88 (co=4.20 so=0)					
SFE	See :					
Soc 62.50	Soc = 6250					

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^{2) (}AP ON TAENCH?

³⁾ DIEES SURROUMING FACILITY?

PRE-HRS
WORKSHEET
-GW & SW

Groundwater Route		75
Depth to aquifer of concern	1400'	(0)
Net precipitation	33.57 - 30.00 - 357"	
Perneability (material type)	CLAY	(0)
Physical state	SLUJGE	23
Containment (type, degree)	NO LINE / WITH PONDING	<u>3</u> \
Toxicity; persistence (compounds)	LEADED SLUDGE [MAA KOSZ)	3,3 (B)
quantity	55gal x 15 tents = 9075gal/50= (55-165 gal/tunk)	1815 chums 2
Groundwater use	DRINKING WATER (BENGENVILLE)	<u>(3)</u>
Population served	16,700	5
Nearest well	2.5 miles (I)	(0)
Surface Water Route	-	
Slope and terrain	Slope £3%, Téchan £3% 2.58"	<u>⟨o</u> ⟩
24 hr rainfall	2.38"	(2)
Nearest Surface water	1.25 miles	
Physical state	Sludge	<u>3</u>
Containment (type, degree) 1/1/50	officiently consider landfil wopen di	Les 3
Toxicity; persistence (compounds)	LEADED SLUCK	(18)
quantity	181.5 Drums	(2)
Surface water use	INDUSTRIAL	
Sensitive environment	Nonte	
	5	
Intake distance Population served Con DUNIA	, with	

05T:2T

	•	•,
Broundwater Route Score Box?	10.88	118.37
Burlace Water Route Score (Saw)	1.96	3.84
Al- Route Score (S ₄)	0	0
6° + 6° + 6°		122.21
V 6 9 . 0 0 6 0		11.05
$\sqrt{a_{0}^{2} + a_{0}^{2} + a_{0}^{2}} / 1.13 + b_{0}$		6.39

OBSERVED RELEASE

	•	8º i.		
Broundwater Route Score Bgw1	40.82	1666.27		
Surface Water Route Score (Bam)	4.10	17.64		
Air Route Score (Sa)	0	0		
5° + 5° + 5°		[683.41		
$\sqrt{s_{gw}^2 \cdot s_{aw}^2 \cdot s_{g}^2}$		41.04		
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_{s}^2} / 1.72 - s_{ss}$.23.72		

OBSERVED RELEASE GW ONLY

	•	8º i.
Groundwater Route Score Bgg	40.82	1666.27
Burlace Water Route Score (S ₈₉)	1.96	3.84
Ali Route Score (Sa)		0
50 + 50 + 60		1670.11
√s, s, s		40.87
$\sqrt{s_{gw}^2 + s_{gw}^2 + s_{g}^2} / 1.75 + s_{gw}$		23.62

- OBSERVED RELEASE SW ONLY

·	. 8	82		
Groundwater Route Score (5 _{8 H})	10.84	118.37		
Burlace Water Route Score (Sau)	4.20	17.64		
Ali Route Score (Sa)	0	· 0		
50 . 50 . 50 . 50 . 50 . 50 . 50 . 50 .		136.01		
√ 6 0 × 6 0 × 6 0 × 6 0		11.66		
$\sqrt{8_{gm}^2 + 8_{gm}^2 + 8_{gm}^2} / 1.73 - 8_{gm}^2$	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	6.74		

		Ground Water Route Work Shee	et	٠.		,	
	Rating Factor	ng Factor Assigned Value (Circle One)			Max. Score	Ref. (Section)	OBS. RELEAN
0	Observed Release	0 45	1	0	45	3.1	45
		s given a score of 45, proceed to line 4. s given a score of 0, proceed to line 2	•				
2	Route Characteristics Depth to Aquifer of Concern	· ·	2	0	6	3.2	
	Net Precipitation Permeability of the Unsaturated Zone	0 () 2 3 () 1 2 3	1	0	3 3		
	Physical State	0 1 2 🕉	1	3	3		1
		Total Route Characteristics Score		4	15		
3	Containment	0 1 2 3	1	3	3	3.3]_
4	Waste Characteristics Toxicity/Persistenc Hazardous Waste Ouantity	∕ ^	1	18	18 8	3.4	
	:				e		
		Total Waste Characteristics Score		20	26		Zo
5	Targets Ground Water Use	0 1 2 3	3	6	9	3.5	
	Distance to Nearest Well/Population Served	0	1	20	40 .		
	. [Total Targets Score		26	49.		26
E		Itiply 1 x 4 x 5 iply 2 x 3 x 4 x 5		6290	57,330		1 3400
2	Divide line 6 by 57	7,330 and multiply by 100	Sow-	10.88			40.82

FIGURE 2
GROUND WATER ROUTE WORK SHEET

		•	Surface Water	er Roule Wo	ork Shee	ļ.				1
	Rating Factor			ed Value e One)		Multi- plier	Score	Max. Score	Ref. (Section)	OBS.
0	Observed Release		0	45		1	0	45	4.1	45
_	If observed releas	_								
2	Route Characteris Facility Slope an		p (b) 1 2	3		1	0	3	4.2	
	Terrain 1-yr. 24-hr. Raini			-		1	Z	3		ĺ
	Distance to Neal		0 1 2	3		2	2	6		[
•	Physical State	٠.	0 1 2	3		1	3	3		
	ž	То	tal Route Cha	racteristics	Score		7	15		<i>;</i> .
3	Containment		0 1 2	3	•	1	3	3	4.3	
4	Waste Characteris Toxicity/Persiste Hazardous Wast Ouantity	ence	0 3 6 0 1 2	9 12 15 (E	7 8	1	18	18 8	4.4	_
	·	To	tal Waste Cha	aracteristics '	Score		20	26		20
3	Targets								4.5	
	Surface Water U		0 (b) (b) 1	2 3 2 3		3	3	9	i	٠
	Environment Population Serve to Water Intake Downstream	ed/Distance	_	6 8 10 18 20 32 35 40		1	0	40		
			Total Targ	gets Score			3	55		3
6	If line 1 is 45, If line 1 is 0, n	multiply 1 nultiply 2	x 4 x 5 x 3 x 4	x 5			1.96	64,350		2700

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

	Air Route	Work Sheet				
Rating Factor	Assigned Value Multi- (Circle One) Plier		Score	Max. Score	Ref. (Section)	
1 Observed Release	6	45	1	0	45	5.1
Date and Location:					·	·····
Sampling Protocol:				············		
If line 1 is 0, the S _a = If line 1 is 45, then pro		. 				
Waste Characteristics Reactivity and	0 1 2 3		1.		3	5.2
Incompatibility Toxicity	0 1 2 3		3		9	
Hazardous Waste Ouantity	0 1 2 3	4 5 6 7 8			8	
	Total Waste Charac	cteristics Score			20	
Targets Population Within) 0 9 12 15	18	1		30	5.3
4-Mile Radius	J 21 24 27 30					
Distance to Sensitive Environment	0 1 2 3		2		6	
Land: Use	0 1 2 3		1		3	
	Total Targe	s Score			39	
Multiply 1 x 2 x	3			ර	35,100	
5 Divide line 4 by 35,10	0 and multiply by 100		Sa=			

FIGURE 9
AIR ROUTE WORK SHEET

					ion Work She				
Rating Factor	Assigned Value (Circle One)					Multi- plier	Score	Max. Score	Ref. (Section
Containment	1,				3	1		3	7,1
2 Waste Characteristics							-		7.2
Direct Evidence	D			3		1		3	
Ignitability	0	1	2	3		1		3	
Reactivity	D	1	2	3		1		3	
Incompatibility	0	1.	2	3		1		3	
Hazardous Waste Ouantity	0	1	2	3	4 5 6 7	B 1		8	
	Total Wa	sle	Cha	arac	teristics Score			20	
3 Targets									7.3
Distance to Nearest Population	0	1	2	3	4 5	1		5	
Distance to Nearest Building	. 0	1	2	3		1		3	
Distance to Sensitive Environment	0	1	2	3		1		3	
Land Use	0	1	2	3	•	1		3	
Population Within 2-Mile Radius	0	1	2	3	4 5	1		5	
Buildings Within 2-Mile Radius	0	1	2	3	4 5	1		5	·
	•								
					•				•
-						τ			
Total Targets Score							24		
Multiply 1 x 2 x 3							1,440		
5 Divide line 4 by 1,44	N and multin	1	9	<u>-</u> -		SFE -			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

		Direct Contact Work Shee)1					
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	OB.	
O	Observed Incident	· (ø) 45	1	O	45	8.1	45	
		oceed to line 4 ceed to line 2						
2	Accessibility	0 1 2 (5)	i	3	3	8.2		
[3]	Containment	• (15)	1	15	15	8.3		
1	Waste Characteristics Toxicity	0 1 2 🔊	5	15	15	8.4	15	
[3]	Targets Population Within a 1-Mile Radius	0 1 2 3 4 (5)	4 ,	20	20	8.5		
	Distance to a Critical Habitat	(b) 1 2 3	4	. O	12			
		Total Targets Score		20	32		20	
6		ultiply 1 x 4 x 5 tiply 2 x 3 x 4 x 5		(3500	21,600		13 500	
17	Divide line 6 by 2	21,600 and multiply by 100	SDC -	67.50			62.50	

FIGURE 12
DIRECT CONTACT WORK SHEET